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LEE & HAYES PLLC 421 W RIVERSIDE AVENUE SUITE 500 SPOKANE, WA 99201			QUELER, ADAM M	
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			2179	

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Please find below and/or attached an Office communication concerning this application or proceeding.

**BEST AVAILABLE COPY**

# Office Action Summary

Application No.

09/361,782

Applicant(s)

DEEN ET AL.

Examiner

Adam M Queler

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 18 November 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-55 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-55 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ - Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

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### DETAILED ACTION

1. This action is responsive to communications: Amendment a filed 11/18/2004.
2. Claims 1-55 are pending in the case. Claims 1, 5, 14, 20, 31, 37, 41, and 44 are independent claims.
3. The rejection of claim 37 in view of Bayeh and Pemburton is withdrawn in light of the applicant's amendment and the claim is newly rejected as noted below.

#### *Claim Rejections - 35 USC § 112*

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:  
  
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
5. **Claim 38 remains rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.**

The term "selectively" in claim 38 is a relative term which renders the claim indefinite. The term "selectively" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

#### *Claim Rejections - 35 USC § 103*

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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**7. Claims 14, 16, 17, and 19 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Bayeh et al (USPN 6012098 —2/23/1998) and further in view of Pemburton et al. "XHTML™ 1.0: The Extensible HyperText Markup Language," published 5/5/1995.**

**Regarding independent claim 14,** Bayeh discloses receiving a request (col. 10, lines 19-25).

Bayeh discloses gathering the data (col. 10, lines 46-58). Bayeh teaches calling an emitter object and format the data contained therein into an appropriate HTML format (col. 11, line 30 – col. 12, line 12). Bayeh does not teach sending XML but rather HTML. Pemburton teaches XHTML, a reformulation of HTML as an XML application that is compatible with browsers (p. 2, Abstract). It would have been obvious to replace the HTML of Bayeh with XHTML, because XHTML retains all of HTML's commonly used features, while removing the complexities that makes authoring and design difficult and costly (pp. 4-5, 1.2), as well embracing extensibility and portability (p. 5, 1.3).

As Bayeh makes no mention of building a hierarchical tree, the Office interprets its absence to mean that it also emits data "in a manner in which" a tree would not have to be built. The Office submits that the absence of a tree in Bayeh is sufficient to anticipate the negative limitation.

However, for the sake of argument the Bayeh sends the markup language data in data streams (col. 2, ll. 45-49) not trees, that is, the HTML/XML is represented as strings of text, not a hierarchical tree structure, that is, the HTML/XML is represented as strings of text, not a hierarchical tree structure.

**Regarding dependent claim(s) 16,** Bayeh teaches calling multiple emitting objects, which would inherently result in multiple emissions of data (col. 8, ll. 43-49).

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**Regarding dependent claim(s) 17**, Bayeh teaches calling multiple emitting objects, which would inherently result in multiple emissions of data (col. 8, ll. 43-49). Bayeh also teaches a defined order in which servlets are called (col. 9, ll. 47-63)

**Regarding dependent claim 19**, the program of claim 19 is the program for carrying out the method of claim 14 and is rejected under the same rationale.

8. **Claims 37 is rejected and claims 1-7, 10-11, 13, 31-32, 34-35, 38 and 48-51 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Bayeh, and further in view of Pemburton, and further in view of "Build Servlet-Based Enterprise Web Applications," by Philion (Copyright 1998).**

**Regarding independent claim 1**, Bayeh discloses processing and formatting results as HTML (col. 11, line 30 – col. 12, line 12). Preparing is broadly interpreted by the examiner to be equivalent to formatting and processing. Bayeh does not teach sending XML but rather HTML. Pemburton teaches XHTML, a reformulation of HTML as an XML application that is compatible with browsers (p. 2, Abstract). It would have been obvious to replace the HTML of Bayeh with XHTML, because XHTML retains all of HTML's commonly used features, while removing the complexities that makes authoring and design difficult and costly (pp. 4-5, 1.2), as well embracing extensibility and portability (p. 5, 1.3).

Bayeh teaches repeating the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach repeating the sending of the prepared portions. Philion teaches sending partial result to a client when it is ready (pp.5-6). In other words, repeating preparing and sending of the response. Philion teaches the techniques are applicable to XML (p.2, para. 3). It would have been obvious to one of ordinary skill in the art at the time of the

invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the “flush()” command of Philion, thereby repeating and preparing and sending until the entire document is sent. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claim 2**, Bayeh discloses gathering the data (col. 10, lines 46-58).

Bayeh teaches calling an emitter object and format the data contained therein into an appropriate HTML format (col. 11, line 30 – col. 12, line 12). Bayeh does not teach formatting into XML, at this step but rather HTML. Pemburton teaches XHTML, a reformulation of HTML as an XML application that is compatible with browsers (p. 2, Abstract). It would have been obvious to replace the HTML of Bayeh with XHTML, because XHTML retains all of HTML’s commonly used features, while removing the complexities that makes authoring and design difficult and costly (pp. 4-5, 1.2), as well embracing extensibility and portability (p. 5, 1.3).

**Regarding dependent claim 3**, Bayeh teaches a gathering object to gather data (col. 10, lines 46-58).

**Regarding dependent claim 4**, Bayeh discloses receiving a request (col. 10, lines 19-25).

**Regarding independent claim 5**, Bayeh discloses receiving a request (col. 10, lines 19-25).

Bayeh discloses processing and formatting results as HTML (col. 11, line 30 – col. 12, line 12).

Preparing is broadly interpreted by the examiner to be equivalent to formatting and processing.

Bayeh does not teach sending XML but rather HTML. Pemburton teaches XHTML, a reformulation of HTML as an XML application that is compatible with browsers (p. 2, Abstract).

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It would have been obvious to replace the HTML of Bayeh with XHTML, because XHTML retains all of HTML's commonly used features, while removing the complexities that makes authoring and design difficult and costly (pp. 4-5, 1.2), as well embracing extensibility and portability (p. 5, 1.3).

Bayeh teaches the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemberton do not teach sending of only the prepared portion. Philion teaches sending partial result to a client when it is ready (pp.5-6). Philion teaches the techniques are applicable to XML (p.2, para. 3). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemberton to the PrintWriter buffer of Philion, in conjunction with the "flush()" command of Philion, thereby preparing and sending a portion of the response. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claim 6**, Bayeh teaches repeating the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemberton do not teach repeating the sending of the prepared portions. Philion teaches sending partial result to a client when it is ready (pp.5-6). In other words, repeating preparing and sending of the response. It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemberton to the PrintWriter buffer of Philion, in conjunction with the "flush()" command of Philion, thereby repeating and preparing and sending until the entire document is sent. The combination is motivated by the desire to keep the browser active (Philion, p.2, para.

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3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claim 7**, the claim is rejected similarly as claim 6, and further Bayeh processing a stream (col. 12, ll. 4-12), which is inherently processed in a pre-defined order.

**Regarding dependent claim 10**, Bayeh discloses gathering the data (col. 10, lines 46-58), with a mechanism, in this case a servlet. Bayeh also teaches formatting data into HTML syntax (col. 1, ll. 1-2), with a mechanism, in this case a servlet.. It would have been obvious in view Pemburton to replace HTML with XHTML for the reasons explained in claim 5 above.

**Regarding dependent claim 11**, as Bayeh, Pemburton, and Philion disclose sending the response as described in claim 5 above, there was inherently a mechanism to do so.

**Regarding dependent claims 13**, the program of claim 13 is the program for carrying out the method of claim 5 and is rejected under the same rationale.

**Regarding independent claim 31**, Bayeh discloses receiving a request (col. 10, lines 19-25).

Inherently, Bayeh has a mechanism for dealing with such a request. Bayeh discloses processing and formatting results as HTML (col. 11, line 30 – col. 12, line 12). Preparing is broadly interpreted by the examiner to be equivalent to formatting and processing. Inherently Bayeh has a mechanism for preparing, that is also coupled to request-receiving mechanism as it prepares the response to the said request handled by said request-receiving mechanism. Bayeh does not teach sending XML but rather HTML. Pemburton teaches XHTML, a reformulation of HTML as an XML application that is compatible with browsers (p. 2, Abstract). It would have been obvious to replace the HTML of Bayeh with XHTML, because XHTML retains all of HTML's



commonly used features, while removing the complexities that makes authoring and design difficult and costly (pp. 4-5, 1.2), as well embracing extensibility and portability (p. 5, 1.3). Bayeh teaches the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach sending of only the prepared portion. Philion teaches sending partial result to a client when it is ready (pp.5-6). Philion teaches the techniques are applicable to XML (p.2, para. 3). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the "flush()" command of Philion, thereby preparing and sending a portion of the response. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claim 32**, Bayeh teaches repeating the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach repeating the sending of the prepared portions. Philion teaches sending partial result to a client when it is ready (pp.5-6). In other words, repeating preparing and sending of the response. It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the "flush()" command of Philion, thereby repeating and preparing and sending until the entire document is sent. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

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**Regarding dependent claim 34**, the claim is rejected similarly as claim 31, and further Bayeh teaches processing a stream (col. 12, ll. 4-12), which is inherently processed in a pre-defined order.

**Regarding dependent claim 35**, Bayeh discloses gathering the data (col. 10, lines 46-58).

Bayeh also teaches formatting data into XML syntax (col. 11, ll. 1-2).

**Regarding independent claim 37**, Bayeh discloses gathering the data (col. 10, lines 46-58) with a servlet, which is an object, which inherently must be called. Bayeh teaches calling an emitter object configured to receive calls that are generated by the data object and format the data contained therein into an appropriate HTML format (col. 11, line 30 – col. 12, line 12).

Bayeh also teaches that multiple servlets may call multiple servlets (col. 8, ll. 43-45). Bayeh does not explicitly disclose to a pre-defined order of calls. Bayeh also teaches a defined order in which servlets are called (col. 9, ll. 47-63).

Bayeh does not teach sending XML but rather HTML. Pemburton teaches XHTML, a reformulation of HTML as an XML application that is compatible with browsers (p. 2, Abstract).

It would have been obvious to replace the HTML of Bayeh with XHTML, because XHTML retains all of HTML's commonly used features, while removing the complexities that makes authoring and design difficult and costly (pp. 4-5, 1.2), as well embracing extensibility and portability (p. 5, 1.3). Bayeh teaches the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach sending of only the prepared portion. Philion teaches sending partial result to a client when it is ready (pp.5-6). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the "flush()" command

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of Philion, thereby preparing and sending a portion of the response. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claim 38**, Bayeh teaches the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach sending of only the prepared portion. Philion teaches sending partial result to a client when it is ready (pp.5-6). Philion teaches the techniques are applicable to XML (p.2, para. 3). As Bayeh and Philion both teach preparing the portions as streams, with Philion also teaching sending streams, the document is streamed in ordered segments, for example character-by-character, or possibly byte-by-byte. Regardless of the specific implementation the file is broadcast in its first-to-last order. Therefore, inherently the hierarchical order is also maintained. It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the "flush()" command of Philion, thereby preparing and sending a portion of the response. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claim(s) 48, 49, 50, and 51**, Bayeh teaches the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach sending before the document is complete. Philion teaches sending partial result to a client when it is ready (pp.5-6). As Bayeh and Philion both teach preparing the portions as streams, with Philion also teaching

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sending streams, the document is streamed in ordered segments, for example character-by-character, or possibly byte-by-byte. Regardless of the specific implementation the file is broadcast in its first-to-last order. Therefore, inherently the hierarchical order is also maintained. It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the "flush()" command of Philion, sending the response portion before the XML document is completely built. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

9. **Claims 8, 9, 18, 33, 41-43, 52 and 55 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Bayeh, Pemburton and Philion as applied to claims 5, 14 and 31 above, and further in view of "Extensions for Distributed Authoring on the World Wide Web – WebDAV, Internet Draft," by Goland et al (published 4/7/1998).**

**Regarding dependent claims 9, 18, and 33,** Bayeh, Pemburton and Philion do not disclose a multi-status response. Goland discloses a multi-status response, which is an ordinary XML document (p. 54). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the combination of Bayeh, Pemburton and Philion, which processed XML document as disclosed in claim 5 above, to respond with a multi-status response as it was a normally formatted XML document.

**Regarding dependent claim 8,** the claim is rejected similarly as claim 7 above. Additionally, Bayeh, Pemburton, and Philion do not disclose a multi-status response. Goland discloses a

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multi-status response, which is an ordinary XML document (p. 54). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the combination of Bayeh W3C and Heinemann, which processed XML document as disclosed in claim 5 above, to respond with a multi-status response as it was a normally formatted XML document.

**Regarding independent claim 41**, Bayeh discloses receiving a request (col. 10, lines 19-25).

Bayeh teaches gathering data for a response with an object (col. 10, lines 46-58).

Bayeh teaches calling an emitter object configured to receive calls that are generated by the data object and format the data contained therein into an appropriate HTML format (col. 11, line 30 – col. 12, line 12). Bayeh generates a portion of the response c12.5-13. Bayeh does not teach sending XML but rather HTML. Pemburton teaches XHTML, a reformulation of HTML as an XML application that is compatible with browsers (p. 2, Abstract). It would have been obvious to replace the HTML of Bayeh with XHTML, because XHTML retains all of HTML's commonly used features, while removing the complexities that makes authoring and design difficult and costly (pp. 4-5, 1.2), as well embracing extensibility and portability (p. 5, 1.3).

Bayeh teaches the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach sending of only the prepared portion. Philion teaches sending partial result to a client when it is ready (pp.5-6). Philion teaches the techniques are applicable to XML (p.2, para. 3). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the "flush()" command of Philion, thereby preparing and sending a portion of the response. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is

faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

Bayeh teaches there are several types of data servlets, each with a specific task (col. 7, ll. 44-45).

Bayeh teaches servlet aliasing, whereby a certain servlet is “invoked” or created based on the task it is needed for (col. 9, ll. 47-64, also col. 8, ll. 50-60), effectively associating the object with the task. Inherent, in choosing the correct servlet would be determining the task. Bayeh,

Pemburton and Philion do not disclose the request being a HTTP verb. Goland discloses several WebDAV request methods (ch. 7), the WebDAV methods being HTTP verbs. It would have been obvious to one of ordinary skill in the art at the time of the invention to request XML with WebDAV, thereby replacing the general task of Bayeh and Pemburton, as the specific task of the WebDAV request method, as any data gathering method could be used (Bayeh, col. 10, ll 45-58) and the objects could be optimized for the specific request method (col. 8, ll. 60-63).

**Regarding dependent claim 42**, Bayeh teaches processing a stream (col. 12, ll. 4-12), which is inherently processed in a pre-defined order.

**Regarding dependent claim 43**, Bayeh teaches repeating the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach repeating the sending of the prepared portions. Philion teaches sending partial result to a client when it is ready (pp.5-6). In other words, sending the accumulated response. It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the “flush()” command of Philion, thereby repeating and preparing and sending until the entire document is sent. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3),

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therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claim(s) 52**, Bayeh teaches the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach sending before the document is complete. Philion teaches sending partial result to a client when it is ready (pp.5-6). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the "flush()" command of Philion, sending the response portion before the XML document is completely built.. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claim(s) 55**, Bayeh teaches there are several types of data servlets, each with a specific task (col. 7, ll. 44-45). Bayeh teaches servlet aliasing, whereby a certain servlet is "invoked" or created based on the task it is needed for (col. 9, ll. 47-64, also col. 8, ll. 50-60), effectively associating the object with the task. Inherent, in choosing the correct servlet would be determining the task. Bayeh, Pemburton and Philion do not disclose the request being a HTTP verb. Goland discloses several WebDAV request methods (ch. 7), the WebDAV methods being HTTP verbs. It would have been obvious to one of ordinary skill in the art at the time of the invention to request XML with WebDAV, thereby replacing the general task of Bayeh and Pemburton, as the specific task of the WebDAV request method, as any data gathering method

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could be used (Bayeh, col. 10, ll 45-58) and the objects could be optimized for the specific request method (col. 8, ll. 60-63).

**10. Claims 20-23, 25, 27, 30 44-47 and 54 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Bayeh and Pemburton, and further in view of Goland.**

**Regarding independent claim 20,** Bayeh discloses receiving a request (col. 10, lines 19-25).

Bayeh teaches gathering data for a response with an object (col. 10, lines 46-58).

Bayeh teaches calling an emitter object configured to receive calls that are generated by the data object and format the data contained therein into an appropriate HTML format (col. 11, line 30 – col. 12, line 12). Bayeh generates at least a portion of the response (col. 12, ll. 4-12). Bayeh does not teach sending XML but rather HTML. Pemburton teaches XHTML, a reformulation of HTML as an XML application that is compatible with browsers (p. 2, Abstract). It would have been obvious to replace the HTML of Bayeh with XHTML, because XHTML retains all of HTML's commonly used features, while removing the complexities that makes authoring and design difficult and costly (pp. 4-5, 1.2), as well embracing extensibility and portability (p. 5, 1.3).

Bayeh teaches there are several types of data servlets, each with a specific task (col. 7, ll. 44-45). Bayeh teaches servlet aliasing, whereby a certain servlet is "invoked" or created based on the task it is needed for (col. 9, ll. 47-64, also col. 8, ll. 50-60), effectively associating the object with the task. Inherent, in choosing the correct servlet, would be determining the task. Bayeh and Pemburton do not disclose the request being a WebDAV method. Goland discloses several WebDAV request methods (ch. 7). It would have been obvious to one of ordinary skill in the art at the time of the invention to request XML with WebDAV, thereby replacing the



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general task of Bayeh, as the specific task of the WebDAV request method, as any data gathering method could be used (Bayeh, col. 10, ll. 45-58) and the objects could be optimized for the specific request method (col. 8, ll. 60-63).

**Regarding dependent claim(s) 21**, the recitation of “the response portion” corresponds to “at least a portion of a ... response.” Bayeh teaches sending at least a portion of the response to the client (col. 12, ll. 13-15).

**Regarding dependent claim 22**, the Office submits that the absence of a tree in Bayeh is sufficient to anticipate the negative limitation. However, for the sake of argument the Bayeh sends the markup language data in data streams (col. 2, ll. 45-49) not trees, that is, the HTML/XML is represented as strings of text, not a hierarchical tree structure.

**Regarding dependent claim 23**, Bayeh teaches calling multiple emitting objects, which would inherently result in multiple emissions of data (col. 8, ll. 43-49).

**Regarding dependent claim 25**, Bayeh teaches calling multiple emitting objects, which would inherently result in multiple emissions of data (col. 8, ll. 43-49). Bayeh also teaches a defined order in which servlets are called (col. 9, ll. 47-63).

**Regarding dependent claim(s) 27**, Bayeh teaches that portions of the response are created separately, and held until sending (col. 12, ll. 4-12). Inherently, wherever they are stored must be considered a buffer. Bayeh teaches sending the plurality of response portions to the together to the client c12.13-15.

**Regarding dependent claim 30**, the program for performing the method of claim 20 is rejected under the same rationale.

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**Regarding dependent claim(s) 54**, Bayeh teaches there are several types of data servlets, each with a specific task (col. 7, ll. 44-45). Bayeh teaches servlet aliasing, whereby a certain servlet is “invoked” or created based on the task it is needed for (col. 9, ll. 47-64, also col. 8, ll. 50-60), effectively associating the object with the task. Inherent, in choosing the correct servlet, would be determining the task. Bayeh and Pemburton do not disclose the request being a WebDAV method. Goland discloses several WebDAV request methods (ch. 7). It would have been obvious to one of ordinary skill in the art at the time of the invention to request XML with WebDAV, thereby replacing the general task of Bayeh, as the specific task of the WebDAV request method, as any data gathering method could be used (Bayeh, col. 10, ll 45-58) and the objects could be optimized for the specific request method (col. 8, ll. 60-63).

**Regarding independent claim 44**, Bayeh discloses receiving a request (col. 10, lines 19-25). Bayeh teaches gathering data for a response with an object (col. 10, lines 46-58).

Bayeh teaches calling an emitter object configured to receive calls that are generated by the data object and format the data contained therein into an appropriate HTML format (col. 11, line 30 – col. 12, line 12). Bayeh generates a portion of the response c12.5-13. Bayeh does not teach sending XML but rather HTML. Pemburton teaches XHTML, a reformulation of HTML as an XML application that is compatible with browsers (p. 2, Abstract). It would have been obvious to replace the HTML of Bayeh with XHTML, because XHTML retains all of HTML’s commonly used features, while removing the complexities that makes authoring and design difficult and costly (pp. 4-5, 1.2), as well embracing extensibility and portability (p. 5, 1.3).

Bayeh teaches there are several types of data servlets, each with a specific task (col. 7, ll. 44-45). Bayeh teaches servlet aliasing, whereby a certain servlet is “invoked” or created based

on the task it is needed for (col. 9, ll. 47-64, also col. 8, ll. 50-60), effectively associating the object with the task. Inherent, in choosing the correct servlet would be determining the task.

Bayeh and Pemburton do not disclose the request being a HTTP verb. Goland discloses several WebDAV request methods (ch. 7), the WebDAV methods being HTTP verbs. It would have been obvious to one of ordinary skill in the art at the time of the invention to request XML with WebDAV, thereby replacing the general task of Bayeh and Pemburton, as the specific task of the WebDAV request method, as any data gathering method could be used (Bayeh, col. 10, ll 45-58) and the objects could be optimized for the specific request method (col. 8, ll. 60-63).

**Regarding dependent claim 45**, Bayeh teaches that the request is routed to the “proper” object (col. 10, ll. 30-31). The Office interprets this to mean that the object is unique to the request.

**Regarding dependent claim 46**, Bayeh discloses calling an object (servlet) and passing it the data (col. 11, ll. 20-24).

**Regarding dependent claim 47**, Bayeh teaches calling an emitter object configured to receive calls that are generated by the data object and format the data contained therein into an appropriate HTML format (col. 11, line 30 – col. 12, line 12). Bayeh generates at least a portion of the response (col. 12, ll. 4-12). Bayeh does not teach sending XML but rather HTML. Pemburton teaches XHTML, a reformulation of HTML as an XML application that is compatible with browsers (p. 2, Abstract). It would have been obvious to replace the HTML of Bayeh with XHTML, because XHTML retains all of HTML’s commonly used features, while removing the complexities that makes authoring and design difficult and costly (pp. 4-5, 1.2), as well embracing extensibility and portability (p. 5, 1.3).

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**11. -Claims 24, 26, 28, and 53 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Bayeh, Pemburton, and Goland, and further in view of Philion.**

**Regarding dependent claim 24**, Bayeh teaches the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach sending of only the prepared portion. Philion teaches sending partial result to a client when it is ready (pp.5-6). Philion teaches the techniques are applicable to XML (p.2, para. 3). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the “flush()” command of Philion, thereby preparing and sending a portion of the response. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claim 26**, Bayeh teaches calling multiple emitting objects, which would inherently result in multiple emissions of data (col. 8, ll. 43-49). Bayeh teaches the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach sending of only the prepared portion. Philion teaches sending partial result to a client when it is ready (pp.5-6). Philion teaches the techniques are applicable to XML (p.2, para. 3). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the “flush()” command of Philion, thereby preparing and sending a portion of the response. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3),

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therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claim(s) 28**, Bayeh and Pemburton do not teach sending less than the whole response. Philion teaches sending less than an entirety of a result to a client (pp.5-6). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, thereby repeating and preparing and sending until the entire document is sent. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claim(s) 53**, Bayeh teaches the preparation of portions of the response (col. 12, ll. 4-12). However, Bayeh and Pemburton do not teach sending before the document is complete. Philion teaches sending partial result to a client when it is ready (pp.5-6). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, in conjunction with the "flush()" command of Philion, sending the response portion before the XML document is completely built.. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

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**12. Claims 12, 15, 36, 39, and 40 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Bayeh, Pemburton, and Philion. Mukhi, "ServerTest" (last modified 8/17/1998) is cited as evidence regarding buffered streams.**

**Regarding dependent claims 12, 36, and 39,** Bayeh and Pemburton do not specifically disclose a buffer. Philion discloses buffering a response portion in a buffered and sending the portion (pp.5-6). Philion does not specifically disclose a threshold can be used. Mukhi is cited as evidence that buffered streams have a threshold, (size[]), and when it is reached the data inside is sent (p. 1, last para.). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, thereby sending the portion when the threshold is reached. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**Regarding dependent claims 15 and 40,** Bayeh and Pemburton do not specifically disclose a buffer. Philion discloses buffering a response portion in a buffered stream and sending the portion, that is less than a complete response (pp.5-6). Philion does not specifically disclose a threshold can be used. Mukhi is cited as evidence that buffered streams have a threshold, (size[]), and when it is reached the data inside is sent (p. 1, last para.). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, thereby sending the portion when the threshold is reached. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion,

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p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

**13. Claim 29 remains rejected under 35 U.S.C. 103(a) as being unpatentable over Bayeh, Pemburton and Goland, and further in view of Philion. Mukhi is cited as evidence regarding buffered streams.**

**Regarding dependent claims 29,** Bayeh, Pemburton and Goland do not teach buffered streams. Philion teaches a buffered stream (pp. 5-6). Mukhi is cited as evidence that buffered streams have a threshold, (size[]), and when it is reached the data inside is sent (p. 1, last para.). It would have been obvious to one of ordinary skill in the art at the time of the invention to write the XHTML stream of Bayeh and Pemburton to the PrintWriter buffer of Philion, thereby sending the portion when the threshold is reached. The combination is motivated by the desire to keep the browser active (Philion, p.2, para. 3), therefore creating the illusion to the user that the request is faster (Philion, p. 6, para 2) and to take advantage of the multi-threading capabilities of browsers (Philion, p.6, para. 3).

#### ***Response to Arguments***

14. Applicant's arguments filed 11/18/2004 have been fully considered but they are not persuasive.

#### **Regarding Applicant's remarks on Claims 14, 16, 19:**

Applicant alleges that absence of teaching is not a teaching of absence. Regardless, as was previously cited Bayeh teaches streams, which is a format that does require a hierarchical tree. Bayeh does not teach a hierarchical. If the Office had made an argument that the trees were taught, surely the Applicant would have made the argument that it is not taught by the reference.

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The claim states "without having to build a hierarchical tree." Absent evidence to the contrary, Bayeh does not teach building a hierarchical tree and therefore anticipates that element of the claim. In regard to example the Applicant uses, if the Office was claiming that Bayeh had no power, there is ample evidence the Applicant could use to refute that claim. The Office sees no such evidence in this case.

**Regarding Applicant's remarks on Claim 37:**

Applicant's amendment is sufficient to overcome the rejection under Bayeh and Pemburton, but is obvious in view of Bayeh, Pemburton and Philion, as explained in the rejection above.

**Regarding Applicant's remarks on Claims 1-4 and 48:**

Applicant alleges the Bayeh and Pemburton do not teach sending before the XML document is completely built. With respect, Applicant appears to misunderstand the Office's reliance on Bayeh. In previous actions the Office had relied on the XML stream produced by the data servlet. In this and the previous actions, *in general*, the Office is relying on the HTML stream emitted from the rendering servlet, which is then substituted with XHTML (a form of XML) as per the teachings of Pemburton. For most of this office action the document being sent is illustrated by 96' (Fig. 4). (The fact that 96' is HTML, and not XML is acknowledged and addressed in the combination with Pemburton. Therefore, Applicant's arguments with respect deficiencies of the data servlet are irrelevant.

Applicant also alleges that Philion does not teach sending an XML document. One cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). In this case Philion is not be used



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to show the sending of XML document, but rather that sending partial result to a client when it is ready (pp.5-6). Philion uses HTML as an example in cited portions, but specifically mentions that the techniques are applicable to any document sent by the protocols that servlets support, including XML (p. 2, para. 3). Regardless, the obviousness of substituting XHTML for XML is already explained and suggested by the combination of Bayeh and Pemburton.

Applicant alleges that claim 48 is allowable, as the references do not teach preserving the hierarchical order. As Bayeh and Philion both teach preparing the portions as streams, with Philion also teaching sending streams, the document is streamed in ordered segments, for example character-by-character, or possibly byte-by-byte. Regardless of the specific implementation the file is broadcast in its first-to-last order. Therefore, inherently the hierarchical order is also maintained.

**Regarding Applicant's remarks on Claims 5-7, 10-11, 13 and 49:**

Applicant alleges the same deficiencies as addressed in claims 1 and 48, which are addressed above.

**Regarding Applicant's remarks on Claims 31-32, 34-35, and 50:**

Applicant alleges the same deficiencies as addressed in claims 1 and 48, which are addressed above.

**Regarding Applicant's remarks on Claims 38 and 51:**

Applicant alleges Philion does not teach sending XML. This argument has been addressed in the discussion of claim 1 above.

Applicant alleges that the references do not teach persevering the hierarchical order. This argument has been addressed in the discussion of claim 48 above.

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**Regarding Applicant's remarks on Claims 8, 9, 33,**

Applicant relies on the arguments of the base claims, which have been addressed in their respective sections above.

**Regarding Applicant's remarks on Claims 41-43, 52, and 55:**

Applicant alleges the same deficiencies as addressed in claims 1 and 48, which are addressed above.

**Regarding Applicant's remarks on Claims 20-23, 25, 27, 30, and 54:**

Applicant alleges the same deficiencies as addressed in claims 1 and 48, which are addressed above.

**Regarding Applicant's remarks on Claims 44-47:**

Applicant alleges the same deficiencies as addressed in claim 1, which is addressed above.

**Regarding Applicant's remarks on Claims 24, 26, and 28:**

Applicant relies on the arguments of the base claim, which have been addressed above.

**Regarding Applicant's remarks on Claim 53:**

Applicant alleges the same deficiencies as addressed in claim 1, which is addressed above.

**Regarding Applicant's remarks on Claims 12, 15, 36, 39, and 40:**

Applicant relies on the arguments of the base claims, which have been addressed in their respective sections above.

**Regarding Applicant's remarks on Claims 29:**

Applicant relies on the arguments of the base claim, which have been addressed above.

***Conclusion***

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Adam M Queler whose telephone number is (571) 272-4140. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather R Herndon can be reached on (571) 272-4136. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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AQ

  
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